75203282
PUBLISHED 7/16/88

中央標準局資訊服務

SIIF　本國專利內容（一）　87/03/26 09:08:00

專利名稱：新型手上型塑膠袋封口機

專利類別：新　型
分類號：B29C65/48

申請號：75203282　申請日期：75/04/15
相關申請號：
公告號：101608　公告日期：77/07/16
公告期卷：15 卷 14 期　縮影捲號：000000000000
證書號：000000　000000000000
專利權起始日：77/07/16　專利權止日：87/04/14
異議：無　舉發：無　租與：無
讓與：無　繼承：無　特許實施：無
繳費有效日期／（年次）：/00/00（00）
撤銷日期：00/00/00
消滅原因：00000
第一次優先權日：　(0)　〈無〉微生物寄存

PF15:回檢索畫面　ENTER:內容（二）　PF16:回前一畫面

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Information Service, National Bureau of Standards

SIIF Domestic Patent Content (1) 87/03/26 09/0800

name of patent: NEW STYLE PLASTIC HANDY BAGS SEALING MACHINE

type of patent: new model

classification No.: B29C65/48

application No: 75203282

date of application: 1986/04/15

related application No.: NA

public announcement No.: 101608

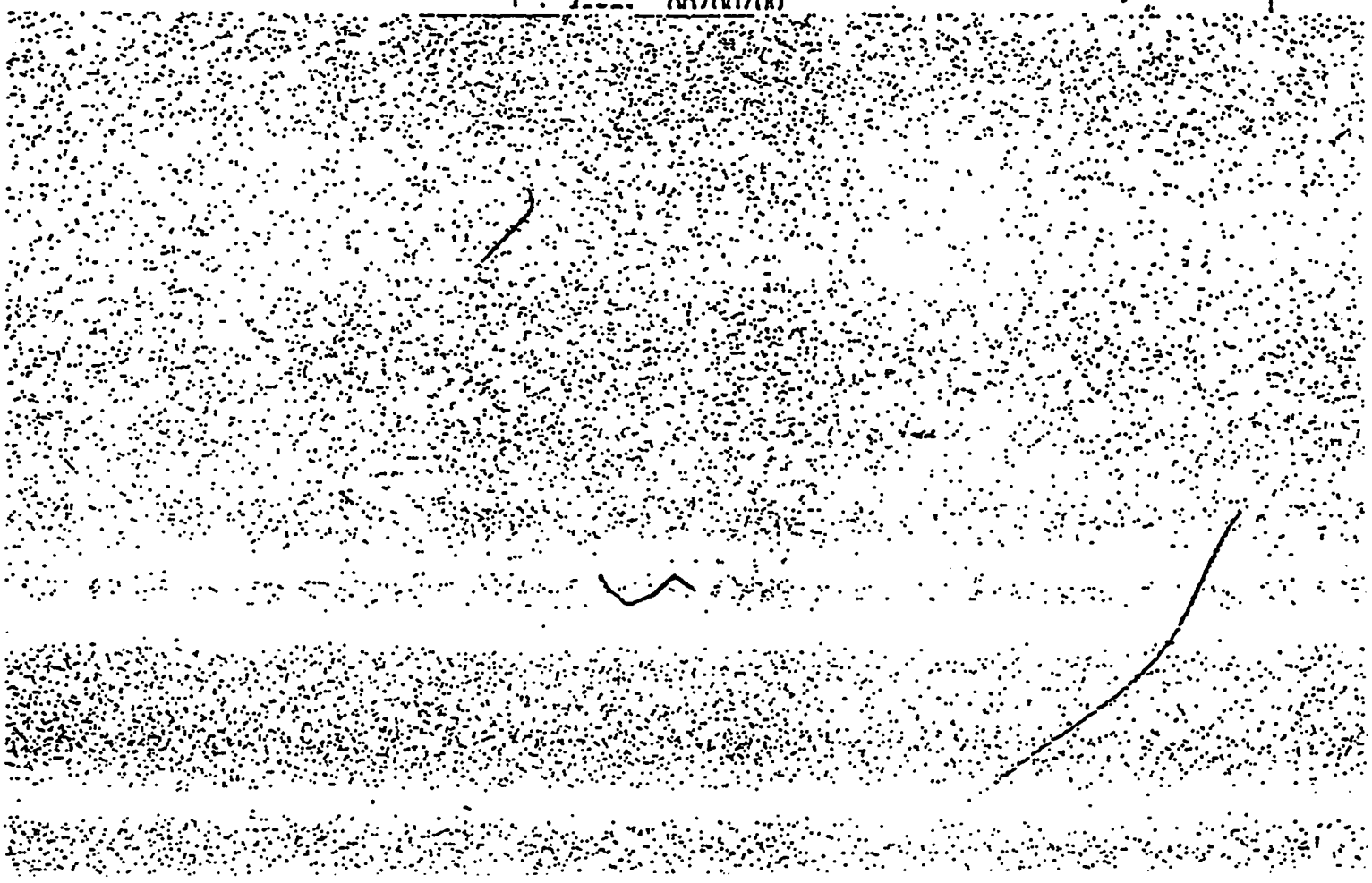
date of public announcement: 1988/07/16

public announcement volume & issue: Issue 14, Volume 15

reduced film roll No.: NA

certificate No.: 000000 (new model)

00/00/00



申請日期	75.4.15
案號	75203392
類別	B29C

(以上各欄由本局填註)

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101608

發明/新型 專利說明書

一、發明/創作 名稱		新型掌上型塑膠袋封口機
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甲4(210×297公厘)

101698

新型名稱之名稱：新型掌上型塑膠袋封口機

四、創作說明：

本創作係提供一種新型掌上型塑膠袋封口機，其特徵係在一底盒體內設有一控制電路裝置，並於前緣部份設有一封口裝置，俾藉由控制電路裝置之封口時間控制鈕之調節，能簡便控制其塑膠袋口之封合時間，並另有一指示燈於封合後作熄滅指示，整體巧小、方便攜行者。

附註：本案已向　　國（地區）申請專利，申請日期：　　案號：

三、詳細說明（本欄應就發明（創作）之目的，技術內容（特點）及功效依次逐項詳細說明）

本創作係有關於一種新型掌上型塑膠袋封口機，特別是指有關於一種巧小，易攜帶，能控制封口時間，能做充、熄燈指示之塑膠帶封口機者。

按，習用之塑膠袋封口機，如照片一、二所示其體積龐大、其構件雜多，使用與攜帶極不方便，而且一端之擺臂具有阻擋作用，所以當塑膠袋太大時，封合時就無

法處理，曾價貴、笨重，不方便，是為一極需解決的大前題，有鑑於斯！本案創作人積多年之觀察，潛心研究而研製出一巧小型，便於搬行與操作，經濟實用之封口機。

5. 依據上述，本創作之主要目的，係在於該新型掌上型塑膠袋封口機，所配置之控制電路裝置，設有一加熱時間調整鈕以調整其電路中之可變電阻器以控制其加熱時間於所欲之定數為其特徵者。

本創作之次一目的，係在於該新型掌上型塑膠袋封口機，於控制電路裝置中，再設有一啓動開關，利用該開關之接、斷以控制加熱之啓動為其特徵者。

本創作之又一目的，係在於該新型掌上型塑膠袋封口機，其中之封口裝置係配置於盒體之前側緣，方便於此該封口機大的塑膠袋之封口作業進行為其特徵者。

15. 本創作之再一目的，係在於提供一種新型掌上型塑膠袋封口機，藉以其整體巧小、輕便為其特徵者。

本創作之功效及其特徵，請參照如附圖所示，並配合其較佳可行實施例，詳細說明於后：

第一圖係本創作新型掌上型塑膠袋封口機之立體分解圖。

20. 第二圖係本創作新型掌上型塑膠袋封口機之側視示意圖。

第三圖係本創作新型掌上型塑膠袋封口機之電路圖。

如第一圖所示，本創作包含有一盒體10；一控制電

路裝置20；一封口裝置30；其中該：

盒體10係呈一盒狀，而在底盒殼11之一側相裝有一受張展彈簧12所張開之蓋體13，蓋體下適當位置有一耐熱墊片14，而於底盒殼一側開有插座孔15，另一側開有燈孔16及調整鈕孔17，而兩側前端開有兩對應之兩滑槽18、18'，而於上部蓋處有一封閉板片19，該板19前端開有缺口190；

該控制電路裝置20，係於電路板200上由一電源開關21通電後能造成一充電迴路A、B、C、D之充電，再藉由一啓動開關23以導通經由A、B，三極體E，指示燈LED，光耦合器F及矽控二極體TRIC及加熱綫圈H、T之放電迴路，藉由其中之時間可變電阻器G之可調以控制加熱綫圈H、T之發熱時間，於電路板200之前側中央部份設有一啓動開關23（於此爲壓簧開關）係由兩凸筍230、231上加有簧片232、233，另有加熱時間調整鈕24，指示燈炮25，電源座26配置於其上；

該封口裝置30，係在一加熱器座31之上部兩側開設有滑槽32，並利用固定彈夾32'將織維布33（於此爲玻璃纖維爲最佳）將其夾置固定於該槽32上並包覆於加熱器座上方之一加熱綫圈H、T（於此爲鎳鉻螺旋綫）34，並有導綫35與上述控制電路裝置20相通，加熱器座31兩端突出有凸栓310，依此兩凸栓裝設於上述底盒殼11前端之兩滑槽18、18'上並落於缺口190內，而上述之啓動開關23正位於加熱器座31中央下方加熱器座下方並設有彈性元件

36。

使用時，請參照如第一圖、第二圖之所示，將欲封口之塑膠袋40之開口緣41置於加熱器座31之纖維布33上方，利用手掌虎口50壓下蓋體13，使其耐熱壓片14正對於開口緣41上，輕力下壓，則造成啓動開關23之接通，如第三圖所示，使已接通電源開關21之充電迴路A、B、C、D充電後，轉換成放電迴路A、B，三極體E，指示燈LED，光耦合器F及矽控二極體TRIC，加熱線圈H、T而導通加熱線圈以加熱粘合開口緣41，當達時間可變電阻器G所控制之放電時間，由光耦合器F所造成矽控二極體TRIC之斷電時，指示燈LED會熄滅而指示粘合完成。

綜上所述，本案依初步試驗其封口時間約在0.5～2秒即能完成，而溫度可介於80℃～200℃之間，足證本案輕巧、實用、方便、易施行，時間可隨時調整，而且當塑膠袋比本創作大時，可做多次的沿口緣推進封合，更能克服習用之所不能。且由於控制電路裝置並不使用變壓器可減少大大之佔用空間，足促使本案爲掌上型之主因，故本案之輕巧方便，係同類產品中無法比擬的。又本案申請前並未見於刊物亦未見有相同構造公開使用，實具有新穎、實用性，確符新型專利之所述，爰依法提出新型專利之申請，並祈早賜新型專利權爲禱！惟，前述有關本創作之內容，僅係本創作之一較佳可行實施例而已，任何基於本創作如下請求專利部份

內容，所作之適當修正，均應包含於本創作之專利範疇！

第 75203282 號「新型掌上型塑膠袋封口機」
新型專請求專利部份修正本　76年7月　日

六請求專利部份：

1一種新型掌上型塑膠袋封口機，係包含有：

一盒體，係由一盒體呈可張、閉組接於一底盒體之一側組成；

一控制電路裝置，如第三圖所示，設於上述本體內並設有一啓動開關；及

一封口裝置，藉由一彈性元件助其下降能浮升回位的設於上述盒體之底盒體另一側，且能作動控制電路裝置之啓動開關；

藉由盒體之下壓使封口裝置被動作而觸發啓動開關促使控制電路裝置啓動，而使封口裝置放熱以封合位於盒體與封口裝置間之塑膠袋之開口者。

528 20

TAIWANESE APP. NO. 75203282
PUBLISHED 7/16/88

Name of New Model:

New model palm type plastic bag sealing machine

IV. Abstracted Explanation:

This invention is to provide a kind of new model palm type plastic bag sealing machine. Its characteristic is to devise one control circuit device in the bottom case body, and with one sealing device provided at the front edge part, in order to conveniently control the plastic bag sealing time through the regulation of the sealing time control button devised to the control circuit device. In addition, an indication lamp is off after sealing. Its integral dimension is small and convenient in carrying.

V. Detailed Explanation (the goal of the invention [creation], technical content [characteristics] and performance, to be explained in detail in accordance with the selected items)

This creation refers to a kind of new model palm type plastic bag sealing machine, in particular referring to a kind of small, easily carried plastic bag sealing machine which can control sealing time, able to provide lamp ON/OFF indication.

As understood, concerning the traditional plastic bag sealing machine, as shown in photos 1 and 2, its dimension is huge, components are complicated and

numerous, extremely inconvenient in using and carrying. Besides, the arm of one end is provided with block function. Therefore, if the plastic bag is too large, upon sealing, it is unable to be disposed. The sales price is expensive, the unit is heavy, and inconvenient which is a major issue for solution. In view of this, the creator of this case, through observation for many years and deliberate research, researches and manufactures a light type, portable, economic and practical sealing machine which is convenient in operation.

According to the above statement, the main goal of this creation deals with the allocated control circuit device of the said new model palm type plastic bag sealing machine, with a heating time regulation button to adjust the variable resistor in its circuit to control its heating time to the desired fixed number. This is its characteristic.

The next goal of this creation is, concerning the said new model palm type plastic bag sealing machine, in the device of control circuit, a starting switch is provided and by means of connection and disconnection of which, the heating start can be under control. This is its characteristic.

Another goal of this creation is, concerning the said new model palm type plastic bag sealing machine, its sealing device is allocated to the front edge of the box body, convenient to perform operation of a large

plastic bad of the said sealing machine. This is its characteristic.

A further goal of this creation is to provide a kind new model palm type plastic bag sealing machine, with integral dimension to be light and small, as its characteristic.

The performance and characteristics of this creation can be referred to what is shown in the attached drawings, and in compliance with its better and feasible example in practice, it is explained in detail as follows:

Diagram 1 refers to the dimensional analytical drawing of the new model palm type plastic bag sealing machine concerning this creation.

Diagram 2 refers to the profile of the new model palm type plastic bag sealing machine concerning this creation.

Diagram 3 refers to the circuit diagram of the new model palm type plastic bag sealing machine concerning this creation.

As shown in Diagram 1, this creation includes one box body 10; one control circuit device 20; one sealing device 30; in which, the said:

box body 10 is in an umbrella shape, at one side of

the bottom box body 11, a cover body 13 opened by an extensive spring 12, at the proper place below the cover body, one heat resistant pad 14 is provided, and at one side of the bottom box, a slot hole 15 is opened, and light hole 16 and regulation button 17 are opened at the other side. At the front end of both sides, two corresponding chutes 18, 18' are opened. At the upper part of cover, there is a sealing baffle 19. At the front end of the said baffle is opened with a crevice 190;

the said control circuit device 20 is devised to circuit board 200, through power connection of the power source 21, it can then create a power charge loop A, B, C, D for charging, then through a starting switch 23 to conduct discharge loop passing by A, B, triode E, indicating lamp LED, optical coupler F and silicone control diode TRIC and heating wire H, T, by means of the heating time of heating circuit H, T with adjustable control of the time variable resistor G, at the central part of the front side of circuit board 200, one starting switch 23 is devised (at this place as a press switch) which is composed with two extruded tongues 230 and 231, fitted with metal tongues 232 and 233, besides, with heating time regulation button 24, indication lamp 25, power seat 26 which are devised over it;

the said sealing device 30, is opened with wire slot 32 at both sides of the upper part of a heater seat 31, and by using the fixed spring clip 32' to clip

the fiber fabric 33 (which is the best if in glass fiber) to be stabilized to wire slot 32, and coated to a heating circuit H, T 34 (being a nickel & chromium rotating wire here) at the upper part of heater seat, also with guide wire 35 to comply with the above-mentioned control circuit device 20, at both ends of the heater seat 31, an extruded bolt 310 is extended, with two chutes 18, 18' at the front end of the above bottom box body devised along the two extruded bolts, and falling into the crevice 190. The above mentioned start switch 23 is just located below the center of heater 31, below the heater seat, a flexible element 36 is also devised.

In application, please refer to what is indicated in Diagrams 1 and 2, lay the opening edge 41 of the plastic bag 40 to be sealed above the fiber fabric 33 of the heater seat 31, pressing down cover body 13 with hand part between thumb and index finger 56, making the heat-resistant pad 14 to touch to the opening edge 41, press down with light force, then it causes the connection of starting switch 23, as shown in Diagram 3, after making the charging loop A, B, C, D of the connected power source switch 21 to be charged, convert to be discharge loop A, B, triode E, indicating lamp LED, optical coupler F and silicon control diode TRIC, heating wire H, T to lead the heating wire to be heated and stick the opening edge 41, while reaching the controlled charging time of the time variable resistor G, for the optical coupler F to cause silicon control diode TRIC power to be cut

off, the indication lamp LED will turn off to indicate the sealing is complete.

In concluding the above statement, the case, in accordance with preliminary test, its sealing time is about to be completed within 0.5-2 seconds, with temperature to be between 80°C-200°C, which is sufficient to certify this case to be light, practical, convenient, easy in carrying, and time being adjusted at all times. In addition, as the plastic bag is larger than this creation, several times of pushing sealing along opening edge, able to overcome what is beyond fulfillment of the traditional machine. Further more, since the control circuit device does not use transformer that it can reduce the required space considerably, sufficiently to make this case to be a palm type as a main factor. Therefore, this case is light and convenient which is beyond competition of the product of the same grade. In addition, before the application of this case, it is not seen in published journals nor any similar structure is noted in open use. It indeed is provide with state-of-the-art and practical nature, accurately conforming to the new model patent statement. Therefore, the new model patent application is filed in accordance with laws, and it is hoped to be granted with new model patent right as early as possible! However, concerning the content of this creation mentioned above, it is only a better and feasible example in practice, any proper revision performed to this creation concerning the following patent part for petition shall all be included in the scope of patent of this creation!

1103

No. 75203282 "New Model Palm Type
Plastic Bag Sealing Machine"
Revised Version of New Model Patent Request Part
July 1987

VI. The Part Requesting for Patent:

1. A kind of new model palm type plastic bag sealing machine, including:
1 box frame, made of a cover body in opening/closing assembly fitted to one side of a bottom box body;
one control circuit device, as shown in the third diagram, devised into the mainframe, and provided with on starting switch; and
one opening sealing device, by means of one flexible element to assist it to descend, able to float to return to original position; devised to another side of the above mentioned bottom box body, and can activate the start switch devised to the control circuit;
by means of the down pressing of the cover body, the sealing device is activated to touch the starting switch, urging the control circuit device to be started, making the sealing device to generate heat, to seal the opening of the plastic bag located between the cover body and sealing device.

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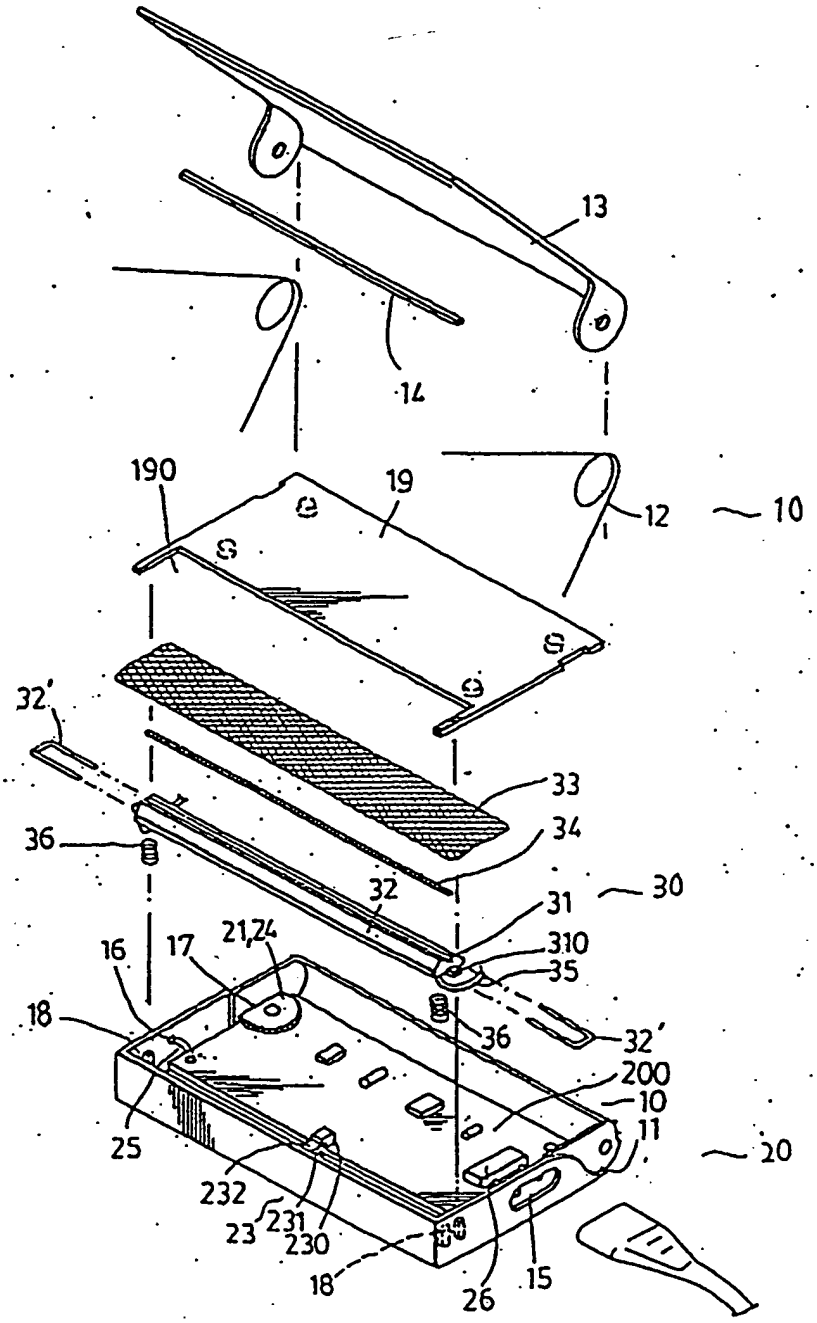

第一圖

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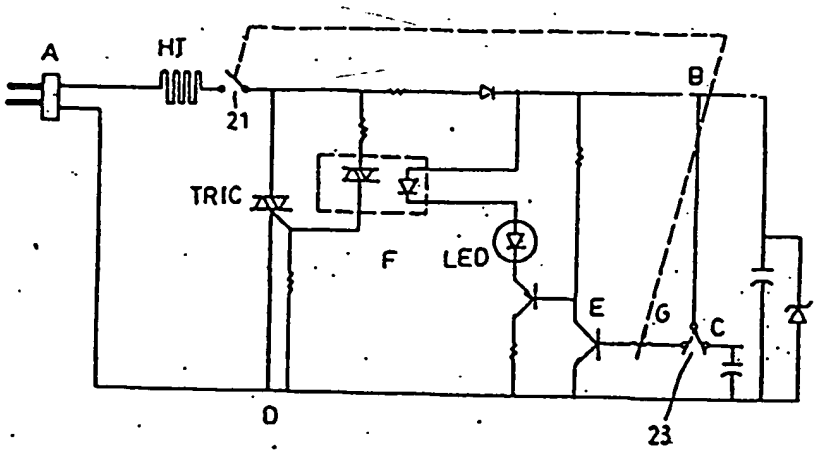
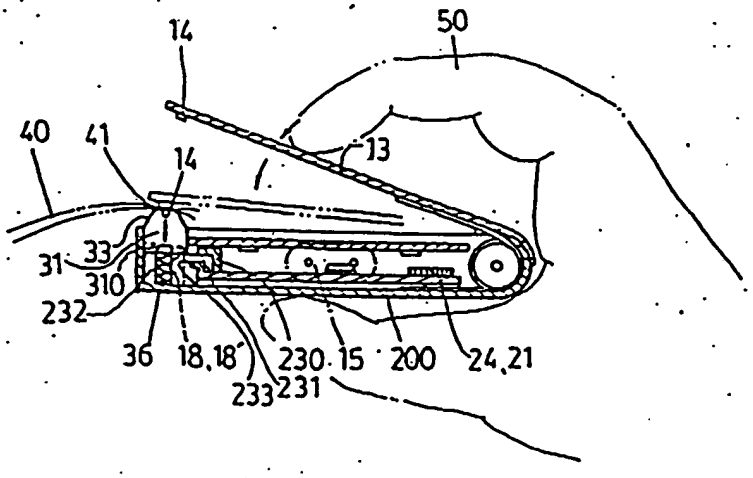


第三圖



第二圖

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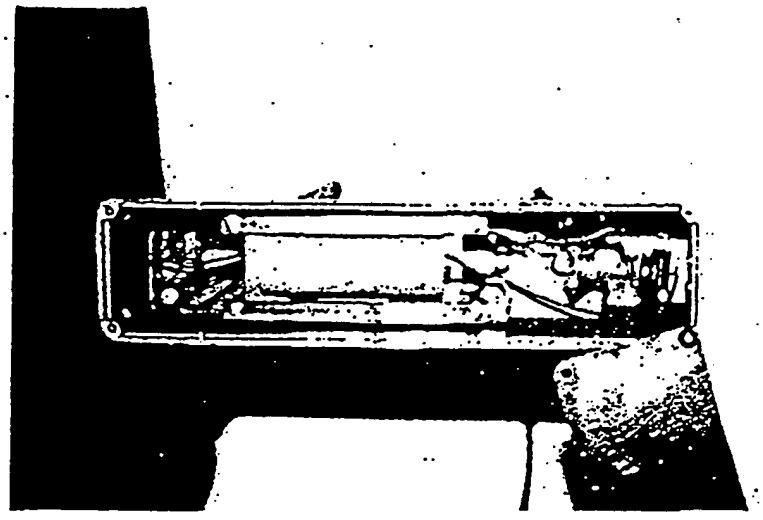
照片一



照片二